

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

PCT

NOTIFICATION OF TRANSMITTAL OF
THE INTERNATIONAL SEARCH REPORT AND
THE WRITTEN OPINION OF THE INTERNATIONAL
SEARCHING AUTHORITY, OR THE DECLARATION

(PCT Rule 44.1)

To:
PAUL FENSTER
FENSTER & COMPANY, INTELLECTUAL PROPERTY LTD
P.O. BOX 10256
49002 PETACH, TIKVA, ISRAEL

Date of mailing
(day/month/year)

03 FEB 2006

Applicant's or agent's file reference
414/04404

FOR FURTHER ACTION

 See paragraphs 1 and 4 below

International application No.
PCT/IL05/00140

International filing date
(day/month/year) 04 February 2005 (04.02.2005)

Applicant
REABILITY INC.

1. ☒ The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.

Filing of amendments and statement under Article 19:

The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):

When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report.

Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes
1211 Geneva 20, Switzerland, Facsimile No.: (41-22) 338.82.70.

For more detailed instructions, see the notes on the accompanying sheet.

2. ☐ The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.

3. ☐ With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:

- ☐ the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.
- ☐ no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. Reminders

Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.

The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.

Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the *PCT Applicant's Guide*, Volume II, National Chapters and the WIPO Internet site.

Name and mailing address of the ISA/US
Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

RECEIVED

Docketed By

Authorized officer

Danton DeMille

Telephone No. (571) 272-3700

Facsimile No. (571) 273-3201

(See notes on accompanying sheet)

Form PCT/ISA/220 (January 2004)

To: MK ☐ MF ☐
AD ☒ AD ☐
FENSTER & Co.

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 414/04404	FOR FURTHER ACTION <small>see Form PCT/ISA/220 as well as, where applicable, item 5 below.</small>	
International application No. PCT/IL05/00140	International filing date (<i>day/month/year</i>) 04 February 2005 (04.02.2005)	(Earliest) Priority Date (<i>day/month/year</i>) 05 February 2004 (05.02.2004)
Applicant REABILITY INC.		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 6 sheets.



It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the Report

a. With regard to the **language**, the international search was carried out on the basis of:



the international application in the language in which it was filed.



a translation of the international application into _____, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))

b. ☐

With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐

Certain claims were found unsearchable (See Box No. II)

3. ☒

Unity of invention is lacking (See Box No. III)

4. With regard to the **title**,



the text is approved as submitted by the applicant.



the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,



the text is approved as submitted by the applicant.



the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the **drawings**,

a. the figure of the **drawings** to be published with the abstract is Figure No. 1



as suggested by the applicant.



as selected by this Authority, because the applicant failed to suggest a figure.



as selected by this Authority, because this figure better characterizes the invention.

b. ☐

none of the figures is to be published with the abstract.

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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:
Please See Continuation Sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
 2. ☐ As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of any additional fees.
 3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
 4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-8
- Remark on Protest**
- ☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
 - ☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
 - ☐ No protest accompanied the payment of additional search fees.

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Box IV TEXT OF THE ABSTRACT (Continuation of Item 5 of the first sheet)

NEW ABSTRACT

The invention relates to a rehabilitation device which guides a patient to perform a motion with a correct spatial trajectory, by the device applying one or more pushing, assisting, reminding, responding and/or resisting forces during a motion (or intent to move) by the patient. The forces are applied by an actuator, for example, a robotic articulated arm or a spherically jointed lever. The applied forces act as a force field, optionally continuous, which impedes and/or guides a patient. The device can be programmable with various trajectories (paths and/or velocities) and/or forces. The forces at one point in the trajectory can vary responsive to an actual trajectory by the patient and/or responsive to a rehabilitation plan and/or improvement of the patient. The device can learn a motion entered by a physiotherapist and replay it for the patient.

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A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61H 1/02

US CL : 601/5, 33

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 601/5, 23, 27-34; A61H 1/00, 1/02

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4,936,299 A (ERLANDSON) 26 JUNE 1990 (26.06.1990) see entire document	1-8
A	US 5,211,161 A (STEF) 18 MAY 1993 (18.05.1993)	
A	US 5,466,213 A (HOGAN et al) 14 NOVEMBER 1995 (14.11.1995)	
A	US 5,391,128 A (deBear) 21 FEBRUARY 1995 (21.02.1995)	
A	US 5,454,774 A (DAVIS) 03 OCTOBER 1995 (01.10.1995)	

☐ Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T"

later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X"

document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y"

document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&"

document member of the same patent family

Date of the actual completion of the international search

04 November 2005 (04.11.2005)

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US

Commissioner for Patents

P.O. Box 1450

Alexandria, Virginia 22313-1450

Facsimile No. (571) 273-3201

Date of mailing of the international search report

03 FEB 2006

Authorized officer

Danton DeMille

Telephone No. (571) 272-3700

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BOX III. OBSERVATIONS WHERE UNITY OF INVENTION IS LACKING

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees must be paid.

Group I, claim(s) 1-8, drawn to a rehabilitation device including a frame, an actuator and a joint interconnecting the frame and the actuator.

Group II, claim(s) 9-11, drawn to a method of setting up a rehabilitation system.

Group III, claim(s) 12-36, drawn to a rehabilitation device including a joint, a substantially rigid radial extension and a controller.

Group IV, claim(s) 37, drawn to a balance rehabilitation device including an actuator and a weight.

Group V, claim(s) 38-44, drawn to a method of rehabilitation comprising assisting motion, resistance to motion and compliance to motion without electro-mechanical feedback loop.

Group VI, claim(s) 45-49, drawn to a rehabilitation device including a motor which prevents back-driving of the motor.

Group VII, claim(s) 50-51, drawn to a rehabilitation device comprising a motor and slot to drive a lever with a spring providing resilience to motion.

Group VIII, claim(s) 52-53, drawn to a multi-axis resilient element with two sets of joints.

Group IX, claim(s) 54-57, drawn to a rehabilitation device including a motor and spring coupled to the motor that is settable.

Group X, claim(s) 58, drawn to a telescoping mechanism.

Group XI, claim(s) 59-65, drawn to a portable rehabilitation device that has two configurations.

Group XII, claim(s) 66-69, drawn to a rehabilitation device comprising a separable element interconnecting a motor and a lever.

Group XIII, claim(s) 70-73, drawn to a rehabilitation device with a controller adapted to identify a safety problem.

Group XIV, claim(s) 74-78, drawn to a rehabilitation docking station with a docking port adapted for locking to a patient carrier.

The inventions listed as Groups I-XIV do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: the rehabilitation devices recite their own specific requirement that is different from any of the other rehabilitation devices. The methods also require specific steps that are

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different from the other method claims and devices. The telescoping mechanism doesn't require any of the details of the rehabilitation devices.